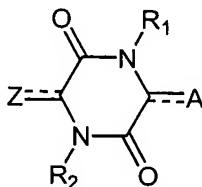


**ABSTRACT**

This invention relates to a method for treating an angiogenesis-related disease. The method includes administering to a subject in need thereof an effective amount of a piperazinedione compound having the formula:



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In the above formula, each of  $\text{---}$  and  $\text{=}$ , independently, is a single bond or a double bond; A is H or  $\text{CH}(\text{R}^a\text{R}^b)$  when  $\text{---}$  is a single bond, or  $\text{C}(\text{R}^a\text{R}^b)$  when  $\text{=}$  is a double bond; Z is  $\text{CH}(\text{R}^c\text{R}^d)$  when  $\text{---}$  is a single bond, or  $\text{C}(\text{R}^c\text{R}^d)$  when  $\text{=}$  is a double bond; each of  $\text{R}_1$  and  $\text{R}_2$ , independently, is H,  $\text{C}(\text{O})\text{R}^e$ ,  $\text{C}(\text{O})\text{OR}^e$ ,  $\text{C}(\text{O})\text{NR}^e\text{R}^f$ , or  $\text{SO}_2\text{R}^e$ ; and each of  $\text{R}^a$ ,  $\text{R}^b$ ,  $\text{R}^c$ ,  $\text{R}^d$ ,  $\text{R}^e$ , and  $\text{R}^f$ , independently, is H,  $\text{C}_1\text{-C}_6$  alkyl, aryl, heteroaryl,  $\text{C}_3\text{-C}_8$  cycloalkyl, or  $\text{C}_3\text{-C}_8$  heterocycloalkyl; or  $\text{R}^a$  and  $\text{R}^b$  taken together are  $\text{C}_3\text{-C}_8$  cycloalkyl,  $\text{C}_3\text{-C}_8$  heterocycloalkyl, aryl, or heteroaryl; or  $\text{R}_1$  and  $\text{R}^a$  or  $\text{R}_1$  and  $\text{R}^b$  taken together are  $\text{C}_3\text{-C}_8$  cycloalkyl,  $\text{C}_3\text{-C}_8$  heterocycloalkyl, aryl, or heteroaryl; provided that one of  $\text{R}^c$  and  $\text{R}^d$  is aryl or heteroaryl.

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